BDCP Conservation Strategy Work Group Working Draft March 19, 2007	**HANDOUT #3** **CSA ELEMENTS**

Working Draft
Elements of Preliminary Conceptual Conservation Strategy Alternatives

Note: This table summarizes the elements of each of the preliminary conceptual conservation strategy alternatives presented at the February 26, 2007 Conservation Strategy Workgroup meeting. Placement of an "X" in columns indicates that the element is a component of the CSA. Placement of a "x" indicates that the element is a component of the alternative, but that it would be implemented at a smaller scale than under other alternatives that include the component.

Conservation Strategy Alternative Elements	Conservation Strategy Alternatives (CSAs)[1]								
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**
Re-operation of pumps to reduce or avoid impacts on fish during sensitive time period	X								X
Re-operation of upstream storage facilities to improve in-stream flows and cold water pool management for benefit of riverine fish	X						X		
Re-operation of rivers to support Delta in-flow for benefit of estuarine species	X							X	X
Removal and consolidation of diversions	X			X	X				
Increased and improved screening of in-Delta diversions	X								
Opportunistic habitat restoration on channel-side of levees (no island restoration)	X	X	X	X	X	X	X	X	X
Improvements to louver facilities at SWP and CVP pumps	X								
Improvements to fish salvage operations	X								
In-Delta Levee setbacks for purpose of floodplain restoration (including riparian, marsh, and open water)		X	X	X	X	x	x	X	X
Restoration of existing farmed islands to aquatic, marsh, and/or open water habitat by re-flooding									
▪ primarily focused on northern and eastern Delta to avoid adverse salinity effects on water quality at pumps		X	X			x	x		
▪ focused Delta wide				X	X			X	X
Increased pumping capacity to take advantage of high flow episodes, limited or no pumping at other times			X						
Increased conveyance capacity south of Delta			X						
Additional south-of-Delta storage facilities and infrastructure necessary to opportunistically store high flows			X						
Re-operate DCC for ecological benefits			X						
Peripheral aqueduct ("South Delta Aqueduct") from Sacramento River (near Hood) with discharge into lower San Joaquin River				X					
Interim in-Delta habitat restoration and system operations during construction of				X	X			X	X

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Conservation Strategy Alternative Elements	Conservation Strategy Alternatives (CSAs)[1]								
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**
new conveyance facilities									
Modified operations to more closely mimic natural hydrologic conditions (salinity, flow, temperature)				X	X			X	X
Reconfiguration of Delta for ecosystem benefits and long-term management after construction of new conveyance facilities				X	X			X	
Diversion on Sacramento River at Hood with isolated facility (i.e., "peripheral canal") that isolates Clifton Court Forebay and SWP and CVP pumps					X				
Conversion of diked wetlands to tidal wetlands in Suisun Marsh						X			
Removal of salinity control structures in Suisun Marsh						X			
Improving passage and access to upstream habitats							X		
Restoration of spawning habitat (e.g., gravel augmentation)							X		
Expansion of river floodplain habitat including creation and expansion of new floodways							X		
Isolation of captured gravel pits							X		
Installation of screens on river diversions							X		
Removal of bank protection to reestablish floodplain processes							X		
Restoration of riparian habitat including shaded riverine							X		
Peripheral aqueduct from Sacramento River (near Hood) with a connector to Clifton Court Forebay that isolates the SWP and CVP pumps (smaller discharge than under CSA 5) and a connector that discharges into lower San Joaquin River (smaller discharge than under CSA 4								X	
Improvements/maintenance of through Delta conveyance facilities									X
Diversion on Sacramento River at Hood with isolated facility (i.e., "peripheral canal") that isolates Clifton Court Forebay and SWP and CVP pumps (of lesser capacity than under CSA 5)									X

[1] Conservation Strategy Alternatives:

1= CSA 1—Operations Modifications with Existing Conveyance Configuration
2 = CSA 2—In-Delta Habitat Restoration under Existing Operations
3 = CSA 3—Opportunistic Exports with In-Delta Habitat Restoration
4 = CSA 4—South Delta Aqueduct with In-Delta Habitat Restoration
5 = CSA 5—Isolated Facility with In-Delta Habitat Restoration
6 = CSA 6—Suisun Marsh Habitat Restoration in Combination with In-Delta Restoration
7 = CSA 7—Upstream Habitat Restoration in Combination with In-Delta Restoration
8 = CSA 8—Bifurcated SDA with In-Delta Restoration
9 = CSA 9—Dual Conveyance with In-Delta Restoration

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